

Public Page
Improvements to the External Corrosion Direct Assessment
Methodology by Incorporating Soils Data
Agreement DTRS56-03-T-0003; 7th Quarterly Status Report
January 1, 2005 to March 31, 2005
Contractor: Battelle

The subject contract covers two projects: (1) adding soils data to the previously developed external corrosion direct assessment (ECDA) datasets and methodology and (2) developing a quantitative basis for evaluating certain time-dependent threats. The status of the first project is reported here.

Project 1: ECDA Soils Model

The objective of this project is to add soils data and a soils model to the previously collected external corrosion direct assessment (ECDA) datasets and methodology. This project includes (1) working with pipeline operators as they conduct ECDAs, (2) collecting soils-related data, and (3) modifying an existing soils model for ECDA.

The development of a soils model for incorporation into the ECDA process will build upon the one that is available for stress corrosion cracking. This is the first attempt to determine if soils data can be used as a reliable tool as part of a comprehensive ECDA process. The utility of the model will need to be evaluated by potential users independent of this program for implementation within their specific ECDA process. A larger and more complete data set will undoubtedly need to be independently derived by operators over time before the usefulness of this approach can be demonstrated. The preparation of the draft final report is underway and will be issued for comment before June 30, 2005.

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